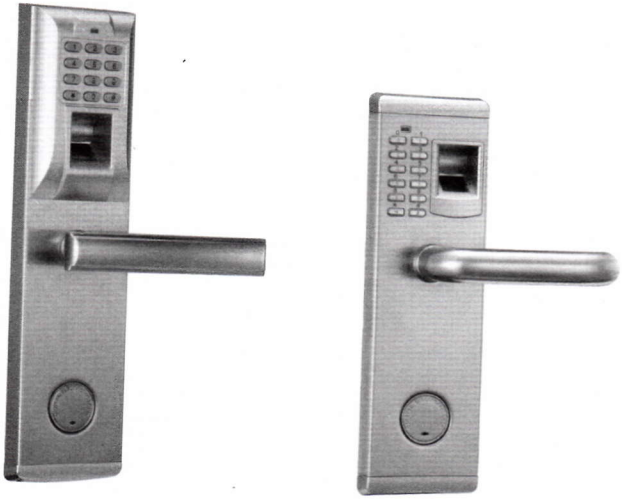
Fingerprint Lock

USER MANUAL



Thank you for purchasing our fingerprint lock.
Please read this manual carefully before operation.
Please keep this manual for future reference.

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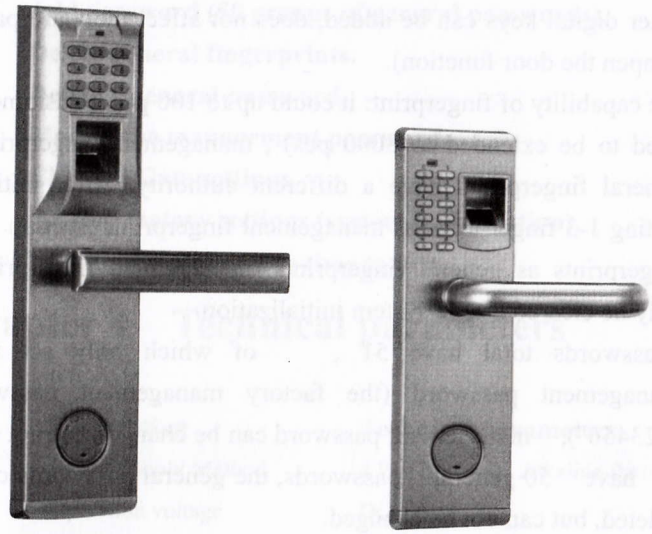
Chapter 1 product Introduction

1.1 Introduction



1.2 Product structure Introduction

1. Stainless steel panels, corrosion-resistant, not color.
2. Cold-rolled steel liner, impact-resistant, anti-destruction.
3. Standard lock body, universal, and reliable.

Chapter 2 Product Features

1. The product have fingerprints, passwords and mechanical keys to open the door way of three separate
2. Fingerprint head can be touch for start power or press # for start

power (factory setting state fingerprint head no power).

3. Operation midway Press * key to exit this operation.
4. Wrong password alarm function, and password error 5 times continuously, the system locking 5 minutes.
5. To improve security, the system supports password garbled function to open the door. (Ie, a valid password before or behind pressing other digital keys can be added, does not affect the valid password to open the door function).
6. The capability of fingerprint: it could up to 100 pcs. (Customers may need to be extended to 3000 pcs) , management fingerprints and general fingerprints have a different authority. After initializing, setting 1-3 fingerprints as management fingerprints ,section 4-100 fingerprints as general fingerprints. management fingerprints can only be cleared by the system initialization.
7. passwords total have 51 , of which only set up one management password (the factory management password is "123456"), management password can be changed but not deleted. it have 50 general passwords, the general passwords can only deleted, but can not be changed.
8. It has the function to keep the lock open . this makes it suitable to use in office or somewhere.
9. With anti-trailing open door function.
10. It can lock the door by rotating knob. in this case , only the management fingprints, management password and the mechanical keys can open the door.
11. When the door is not close good, with alarm function.
12. It has the function of low voltage alarm. this could remind the user to replace the battery before used up.
13. It has Independent of the mechanical key emergency unlock function

14. It suitable to use in office, apartment, villa and family.

Chapter 3 Function keys Guidelines

"1#" Increasing fingerprint (including 3 management fingerprints and 97 general fingerprint).
"2 #" Add password (50 groups of general passwords).
"3 #" Delete general fingerprints.
"4 #" Delete general password.
"5 #" Modify the management password.
"6 #" Channel Gate settings
"7 #" Restore factory settings (system initialization).
"*" Operating status at any time to exit

Chapter 4 Technical parameters

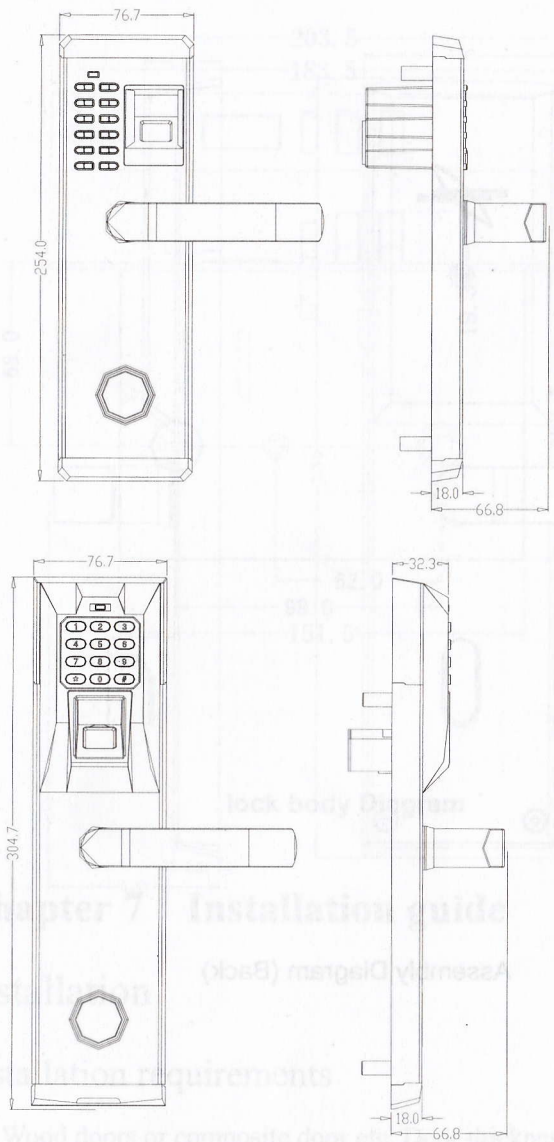
No.	Description	Technical parameters
1	Power Supply Method	4 Pcs 1.5v AA Alkaline Batteries
2	Operation voltage	DC 6V
3	Working current	<65mA
4	Search verification time	**<1.0** S
5	Search mode	**1 : N**
6	Methods of contrast	**1 : 1**
7	**FRR**	**≤1%**
8	**FAR**	**≤0.0001%**
9	Fingerprint Max Storage	**100** Pcs
10.	Fingerprint Storage	**When replacing the battery, there are automatic fingerprint storage technology**

11.	Start up Methods	**Touch screen fingerprint window or press the # key and password directly**
12	**Battery life**	**1 year (Depending on the open door frequency)**
13	Under voltage	**<4.8V**
14	**Use finger angle:**	**360 degrees**
15.	**Light interference**	**try to avoid direct glare**
16	**Acquisition sencor**	**Hard glass, nano-treated surface**
17.	**Password digits**	**4-8**
18.	**Setting fingerprint enter the number of**	**3 time**

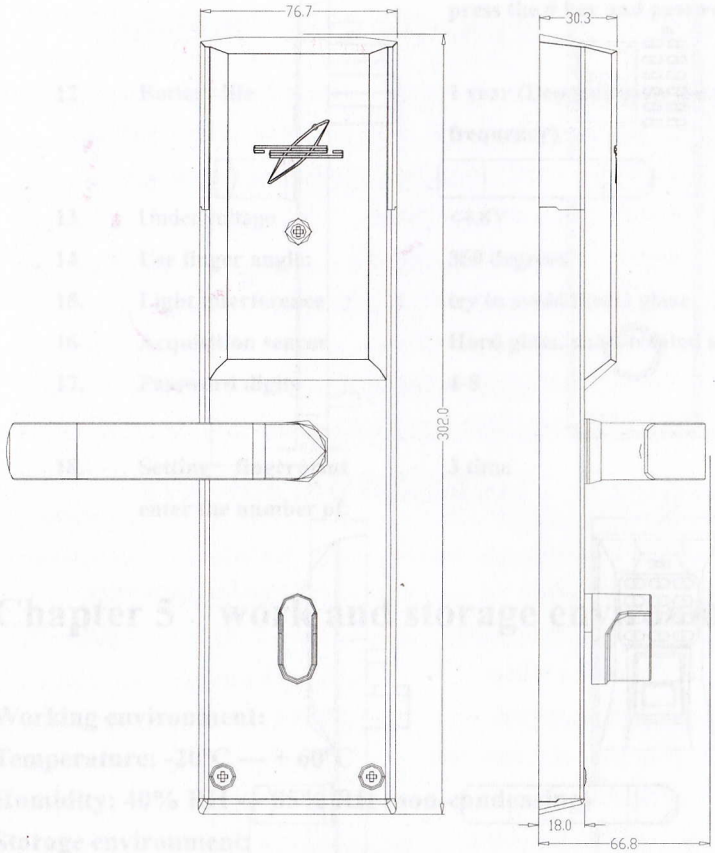
Chapter 5 work and storage environment

Working environment:
Temperature: -20°C --- + 60°C
Humidity: 40% RH --- 85% RH (non-condensing)
Storage environment:
Temperature: -40°C --- + 85°C
Humidity: <85% RH (non-condensing)

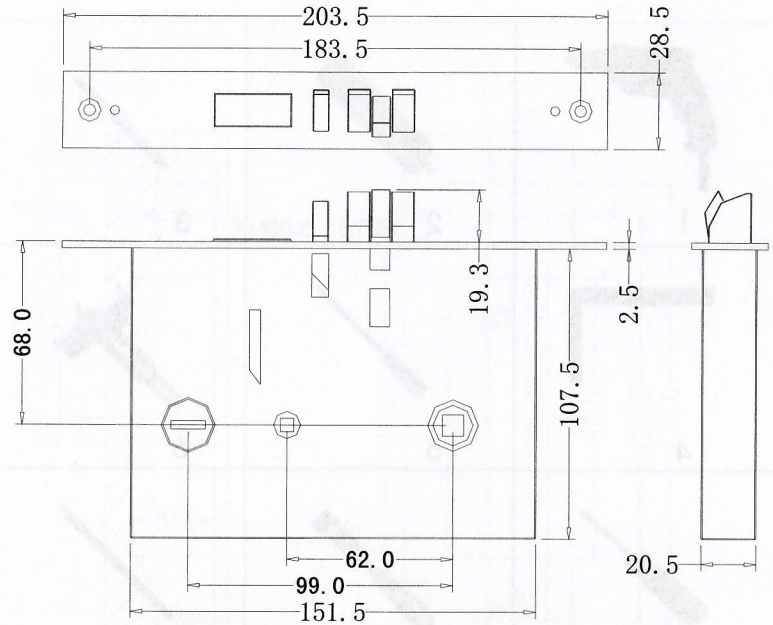
Chapter 6 Structure drawing



Assembly Diagram (Front)



Assembly Diagram (Back)



lock body Diagram

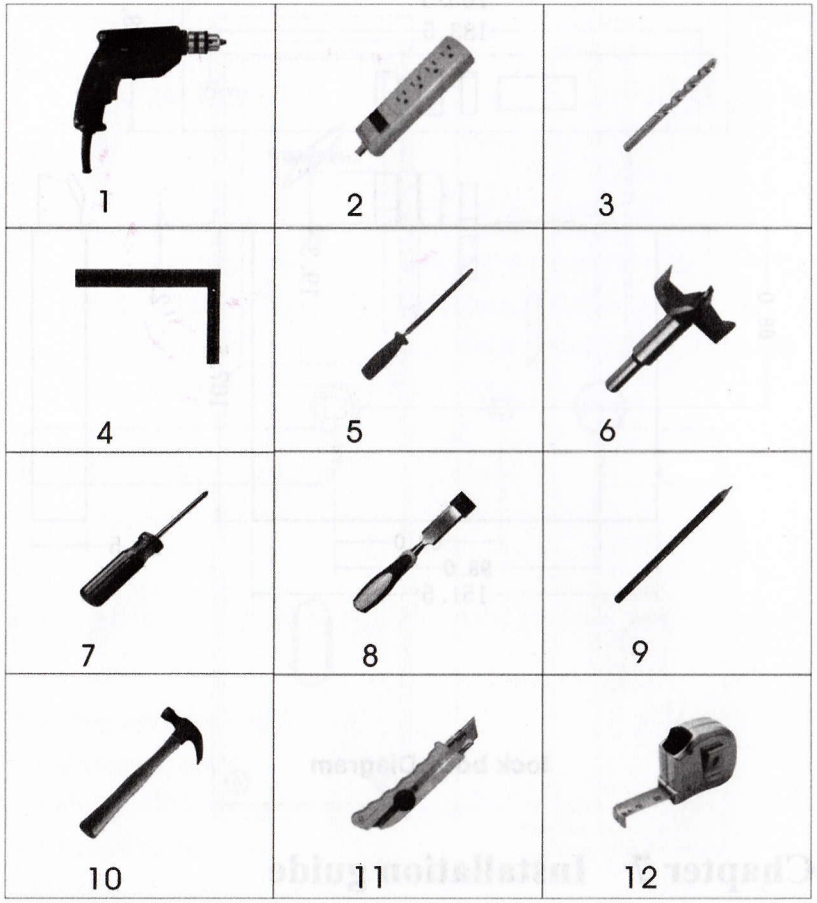
Chapter 7 Installation guide

Installation

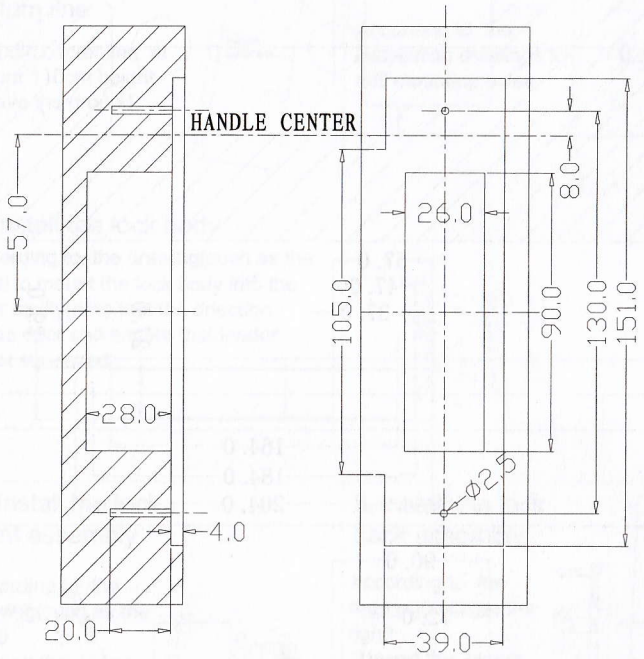
Installation requirements

1. Wood doors or composite door etc. Door thickness 40-65mm.
2. If the door has laciness, the width of the laciness must be >110mm.

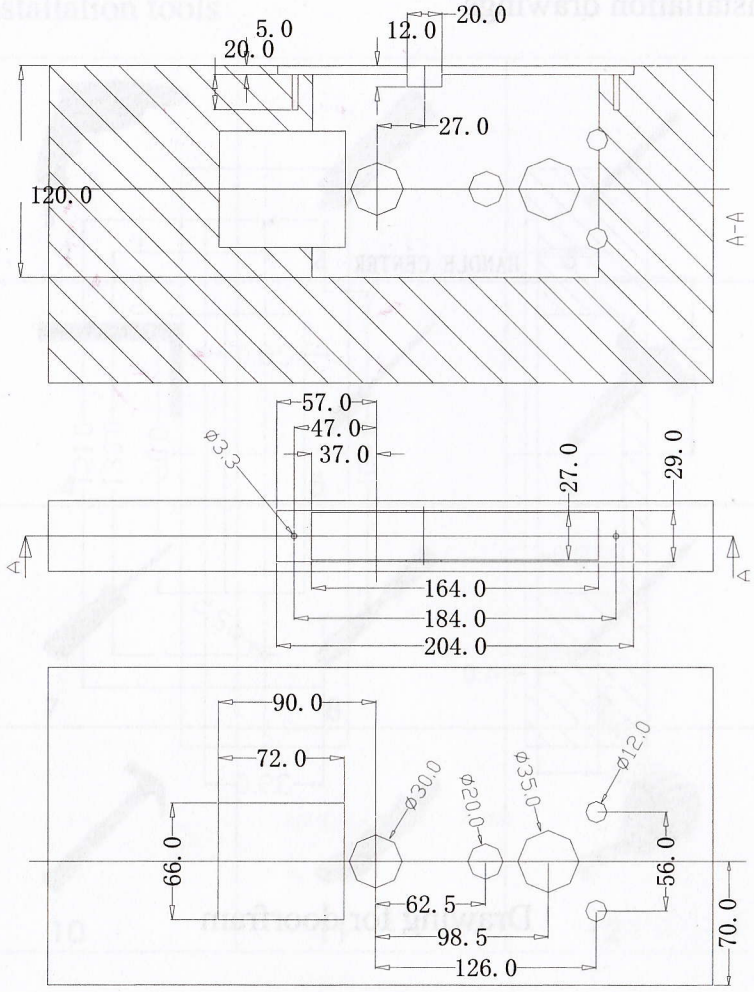
Installation tools



Installation drawings



Drawing for doorfram



Drawing for door

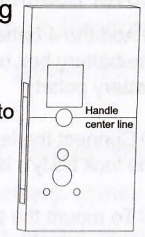
Installation Steps

1. Determine the lock installed datum line

Handle center line at about 110cm height above the ground

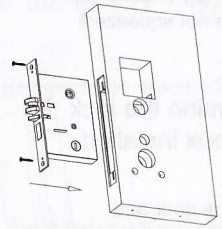
2. Drilled mounting holes

According to the installation drawings to drill mounting holes



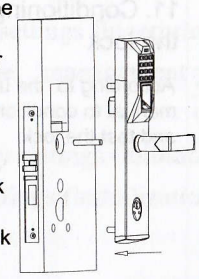
3. Install the lock body

According to the drawing(such as the right) to mount the lock body into the door cavity(note that the driection of the door and ensure that leader is not squeezed)



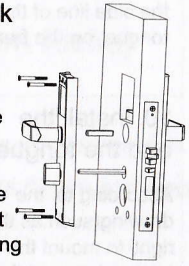
4. Install the lock front assembly

According to the drawing(such as the right)
1) Insert the bigger square shaft into the square hole of the lock body
2) Connect the leader with the lock body leader
3) To mount the lock front assembly on the door (ensure that leaders are not squeezed)



5. Install the lock back assembly

According to the drawing(such as the right)
1) Insert the bigger square shaft and the smaller square shaft into the corresponding square holes of the lock body
2) Connect the leader with the lock body leader
3) To mount the lock back assembly on the door and that must tight fixed the 4 screws

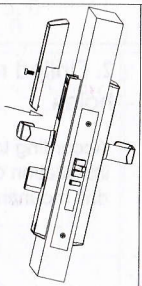


6. Install the battery cover assembly

1) Add the 4 batteries into the battery box (note the battery polarty)

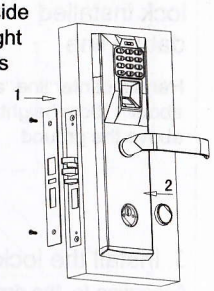
2) Connect the leader with the lock body's leader

3) To mount the battery cover assembly on the lock back assembly (insure that leaders are not squeezed)



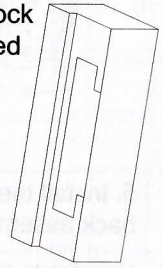
7. Install the side plate and the lock core cover

1) To mount the side plate and must tight fixed the 2 screws



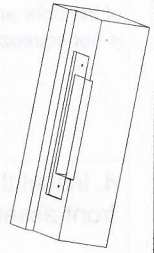
8. Determine the lock tongue box installed datum

Close to the door and the fram , draw the handle center line and the side line of the tongue on the fram



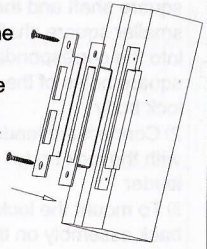
9. Drilled mounting holes

According to the installation drawings to drill mounting holes



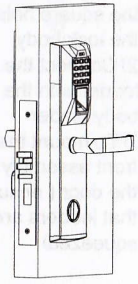
10. Install the tongue box and the tongue box cover

According to the drawing(such as the right) to mount the tongue box and the tongue box cover into the door cavity and that must tight fixed the 2 screws



11. Conditioning and testing the lock

According to the user manual to condition and test the lock



Notes

1. The lock installation after completion of delivery, must be to conduct Restore factory settings (initialization lock) to remove all fingerprints and general passwords, modify the managemen password and registration management fingerprints.

2. Low voltage alarm occurs (when open the door buzzer shortly "beep" sounds the alarm), to promptly replace the battery (since the start of the alarm can also unlock about 30~50 times), make sure the door normal use. be careful to replace the battery , do not install anyway negative.

3. The machanical key is the last resort to open the door, do not to lift the mechanical key in the room.

Chapter 8 Operating instructions

1. Restore factory settings (initialization locks)

1.1 The factory settings

The factory settings fingerprint vacant management password is "123456." Enter the management password and press #, you can open the door.

1.2 Restore factory settings (initialization lock)

Restore factory settings (initialization lock) there are two ways to choose

Method One:

- Input management password (press # to confirm) or management fingerprint, the buzzer "beep" a long sound, press # , enter the function setting stage.
- Press 7 #, buzzer "beep" "beep" twice, the red and green lights flash

alternately 4 times , the system restore factory settings.

(Ie: enter the management password and press #, or management fingerprint → press # → press 7 #)

The second method:

- Insert the key into the lock cylinder (head) holes, continuous turn the key three times, press the # key, the system issued "beep" 3 sounds accompanied by the red and green lights flash alternately 4 times , system restore factory settings.

(Ie: the key continuously rotating three times → Press #)

2. Modify the managemen password

- Input management password (press # to confirm) or management fingerprint, the buzzer "beep" a long sound, press # , enter the function setting stage.
- Press 5 # ,enter the original management password, press # to confirm, buzzer "beep" a sound, confirming successful. enter 4-8 digit new management password, press # to confirm, once again re-enter the new management password, press # to confirm, buzzer long "beep" a long sound, the password change was successful.

(Ie: enter the management password and press # or management fingerprint → press # → press 5 # → enter the original management password and press # → enter the new management password and press # → enter the same new management password again and press #)

Note: If the modification process is wrong , modification system exits, return to the standby mode.

3. Registration management fingerprints and general

fingerprints

3.1 Enter the management password (press # to confirm) or management fingerprint, the buzzer "beep" a long sound, press #, enter the function setting stage, fingerprint module lights.

(Note: The first management fingerprint registration can only authorized by management password)

3.2 Press 1 #,

3.3 Enter the ID number 01, press # to confirm.

3.4 To be added into the fingerprint, buzzer "beep" sound, fingerprint module light off and then flashes. place the fingerprint to be added again, the buzzer "beep" sound, fingerprint module light off then flashes again . third time place the fingerprint to be added , the buzzer long "beep" sound, fingerprint module light off, add the successful management of the fingerprint (3 times recorded)

3.5 If you continuously added, continue to enter the ID number 02, press # to confirm (the third ID number is 03, such along a fingerprint ID number, postponed to 04,05 etc). repeat the operation above step from 3.3 to 3.4, you can add more fingerprints.

If not continuously added, operating such as above 3.1 to 3.4.

(Ie: enter the management password press # or management fingerprint → press # → press 1 # → input fingerprint ID number, such as 01 and press # → put three times a fingerprint)

NOTE:

1）Fingerprint Registration required three times to complete, the middle entry is successful, the buzzer "beep" sound, the lights went out again bright background; third time the registration is successful, the buzzer long "beep" sound, the light off. If the fingerprint

registration fails, Buzzer "beep" "beep" "beep" 3 sounds, the system returns to standby.

2）Management fingerprint and management password is an administrator, it can go directly to the next step setup, general fingerprint and password can only be used open door. management fingerprints can only remove through the system initialization; management password can only be changed but can not be deleted.

3）Registration is required fingerprint and password corresponding ID number (managing fingerprint ID number identified as 01,02,03 three fixed numbers, 04~99 for general fingerprint ID number).

4) Mnagement fingerprints may be the same person in three different fingerprints may also be three person fingerprints

4. Add the general password

- Input management password (press # to confirm) or management fingerprint, the buzzer "beep" a long sound, press # , enter the function setting stage.
- Press 2 #
- Input password ID number, press # to confirm (the ID number of general password from 01 to 50)
- Enter the 4-8 digit password and press # to confirm, the buzzer "beep" sound, once again re-enter the same password and press # to confirm, buzzer long "beep" 2 sounds, add a password is successful, the system returns to standby.

(Ie: enter the management password press # or management fingerprint → press # → press 2 # → enter the password ID number, such as 01 and press # → enter password and press # → again to enter the same password and press #)

Note: Password button operation stopped for more than 7s, the

system exits.

5. Delete general fingerprints

- Input management password (press # to confirm) or management fingerprint , the buzzer "beep" a long sound, press # , enter the function setting stage.
- Press 3 #
- Method One: Enter the general fingerprint ID number, press # to confirm, buzzer "beep" a sound, fingerprint module lights off and then on; enter the genera fingerprint ID number again, press # to confirm, fingerprint module lights off along the short buzzer "beep" "beep" 2 short sounds prompts, the general fingerprint deleted successfully, the system returns to standby.

(Ie: enter the management password press # or management fingerprint → press # → Press the 3 # → input fingerprint ID number, such as 04, press # → input the same fingerprint ID number again, such as 04, press #)

- Method two: place the general fingerprint to be deleted , buzzer long "beep" a sound, fingerprint module lights off, general fingerprint deleted successfully, the system returns to standby.

(Ie: enter the management password press # or management fingerprint → press # → Press the 3 # → input to remove fingerprints)

6. Delete general passwords

- Input management password (press # to confirm) or fingerprint management, the buzzer "beep" a long sound, press # , enter the function setting stage.

- Press 4 #
- Method One: Enter the general password you want to delete ID number, press # to confirm, buzzer "beep" a sound, re-enter the general password you want to delete ID number, press # to confirm, buzzer long "beep" a sound, remove the general password success, the system returns to standby mode.

(Ie: enter the management password press # or management fingerprint → press # → press 4 # → enter the password ID number, such as 01, press # → enter the same password ID number again, such as 01, press #)

Method two: Enter the password you want to delete, press # to confirm, buzzer "beep" a sound, once again re-enter the password you want to delete, press # to confirm, buzzer "beep" a long sound, remove the password success. the system returns to standby mode.

(Ie: enter the management password press # or management fingerprint → press # → press 4 # → enter the password you want to delete, press # →enter the same password again, press #)

7. Normally open feature set and canceled

- Input management password (press # to confirm) or management fingerprint, the buzzer "beep" a long sound, the green light. Press #, enter the function setting stage.
- Press 6 #, the buzzer "beep" a long sound , completed normally open setting.
- Fingerprint or password to open the door once, to cancel the normally open feature.

(Ie: enter the managemen password press # or management fingerprint → press # → Press 6 #)

8. Open the door

8.1 Open the door by a fingerprint

- Input has been successfully registered fingerprint, fingerprint module background lights, buzzer sounding cry, the green light, the motor rotation, turn the handle to open the door.

Note:

1) If input the fingerprint, fingerprint module window does not power on, press # and then enter the power-on, then input fingerprint to open the door.

2) fingerprint input errors, the system flashes red tips., buzzer "beep" "beep" "beep" 3 sounds.

8.2 Open the door by a password

- Input has been successfully registered password and press # to confirm, buzzer sounding cry, motor rotation, turn the handle to open the door.

Note: If you enter the wrong password, the buzzer short "beep" sound prompts; system returns to standby mode; if five consecutive input error, system keyboard lock 5 minutes.

8.3. Open the door by machanical key

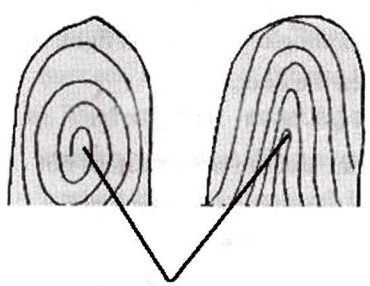
Remove lock core cover , Insert mechanical key into the keyhole, and rotate the mechanical key until the oblique tongue into the lock body completely.

Chapter 9 Precautions

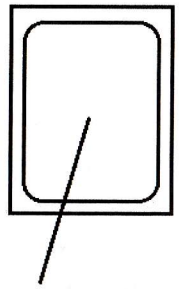
1. Fingerprint collection essentials

Finger center has the richest of fingerprint information, when collecting and verifying fingerprint ,fingers must be placed correctly.

1.1 try to put the Finger center close to fingerprint collection center.



Finger center



fingerprint collection center

1.2 Keep your fingers and screen of collector posted solid, moderate force, so that the force can not be over-squeeze (fingerprint distortion) or not good (input fingerprint information too less).

1.3 Maintain steady finger placement, can not move or shake.

1.4 Verify the fingerprint (open door) did not pass, you can adjust the position of a fingerprint, making it as close to the fingerprint collection location.

1.5. For wet fingers, you need to dry before use.

2. Battery Handling Precautions

Use the correct type battery; If the long-term need, the need to remove the battery; not mix old and new batteries; correct placement battery positive and negative position; If skin or clothes stained with leaking battery fluid, must immediately rinse with water, if the eyes were stained battery lye shall immediately rinse with water, and then seek medical advice as soon as possible.

Chapter 10 Maintenance

1. Daily maintenance

(1) Keep away from corrosive material.

(2) Do not hang anything on the lever handle.

(3) Keep the fingerprint window clean and dry. Wipe it with soft and dry cloth if any stain on it.

2. Warranty policy

Products are guaranteed to be repaired for free within one year since the day of installation and both parties have accepted to be qualified.

What is not covered by this warranty?

- Damage caused by improper installation or maintenance.
- Damaged by service other than an authorized our distributor.
- Damage from misuse, abuse, accident (such as dropping), fire, flood, or acts of nature.
- Your door-lock exceeds the guarantee period.